KiwiSDR Kit

SKU 110060490   f t G+ p r

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Description

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Description

KiwiSDR is a software-defined radio (SDR) covering shortwave, the longwave & AM broadcast bands, various utility stations, and amateur radio transmissions, world-wide, in the spectrum from 10 kHz to 30 MHz. The KiwiSDR is a custom circuit board (cape) you connect to the BeagleBone Green or BeagleBone Black computer. You simply add an antenna, power supply and network connection. The KiwiSDR is available in two versions: the cape alone and a more complete version including BBG, enclosure and GPS antenna. Both versions include software supplied on a micro-SD card.
An HTML5-capable browser and internet connection will let you listen to a public KiwiSDR anywhere in the world. Up to four people can listen simultaneously to one radio — each listener tunes independently.
Try it right now! Listen to KiwiSDR registered on the sdr.hu website.

Features

- 100% Open Source / Open Hardware.
- Browser-based interface allowing four simultaneous user web connections.
- Each connection tunes an independent receiver channel over the entire spectrum.
- Waterfall tunes independently of audio and includes zooming and panning.
- Multi-channel, parallel DDC design using bit-width optimized CIC filters.
- Good performance at VLF/LF since we personally spend time monitoring those frequencies.
- Automatic frequency calibration via received GPS timing.
- Easy hardware and software setup. Browser-based configuration interface.
- Extension interface for adding decoders and utilities.

Specification

- SDR covers the 10 kHz to 30 MHz (VLF-HF) spectrum.
- Web interface based on OpenWebRX from András Retzler, HA7ILM.
- Demodulation modes: AM, AMN, LSB, USB, CW, CWN, NBFM.
- Extensions at present: WSPR viewer/decoder, IQ display, Loran-C viewer.
- RF antenna connector: SMA and terminal block.
- Integrated software-defined GPS receiver from Andrew Holme's Homemade GPS Receiver.
- GPS receives the Navstar system on L1 frequency 1575.42 MHz.
- GPS antenna connector: SMA, 3.3V powered for active antennas.
- Voltage: +5V DC, 2.1mm jack, center pin positive.
- Current: 1.5A including Beagle, KiwiSDR powers Beagle through header connectors.
- Dimensions: KiwiSDR PCB 117mm * 55mm, SMA connectors additional.

Part List

- 1 x KiwiSDR Board
- 1 x Beaglebone Green
- 1 x Unassembled enclosure
- 1 x Skyworks SE4150L GPS front-end antenna

- 1 x Micro-SD Card

Documents

- For source code and issues list, please visit our [Github](#)page.
- For technical discussion, please come to our [Forum](#).
- For projects that you would like to share with the community, please visit [Recipe](#).

Best-sellers

KiwiSDR Board	ESP-32S Wifi Bluetooth Co...	LinkIt Smart 7688 Duo	SeeedStudio BeagleBone ...

Technical Details

Weight	G.W 310g
Battery	Exclude

Part List

KiwiSDR Board	1
Beaglebone Green	1
Unassembled enclosure	1
Skyworks SE4150L GPS front-end antenna	1
Micro-SD Card	1

Reviews

⭐⭐⭐⭐⭐ **service and product great**

Hard to get the nylon standoffs and nuts attached to the BBG. Tedious!

Jan 31,2017 by Lill.James   United States   Was this review helpful ?   👍 0

⭐⭐⭐⭐⭐ **Nice product**

Smooth transaction - as always.Thanks.

Jan 24,2017 by Per-Tore Aasestrand   Norway   Was this review helpful ?   👍 0

Questions and Answers

> Have a question about this? Ask people who own it.

▲
1

Is a power supply required for simple HF listening, or is the voltage from the usb enough? Also, I/O can be through ethernet or USB, correct?

dan.barr on Jun 05,2017   💬 Reply |
                                           ♡ upvote (1)

I take back the part about I/O through USB. Just the question about the power supply. Thanks.

dan.barr on Jun 05,2017 02:35 AM   💬 Reply |
                                                   ♡ upvote (0)

@dan.barr Hi Dan. Power has to be applied to the Kiwi's round (2.1/5.5 mm) DC jack. 5V @ 1.5 to 2A. USB power on the BBG can't handle the current (it won't even power-up). See here: http://kiwisdr.com/quickstart/index.html#id-power

jks on Jun 06,2017 07:18 AM

Reply |
upvote (1)

@jks Thank you. Just one follow up: Will I need a preselector/high pass filter for strong AM interference?

dan.barr on Jun 19,2017 03:18 AM

Reply |
upvote (0)

@dan.barr Hi Dan. Yes, it is possible you will need an HPF. Depends on how strong your local AM BCB signals are.
See here: http://kiwisdr.com/quickstart/index.html#id-overload

jks on Jul 02,2017 18:29 PM

Reply |
upvote (0)

0

Is there a customs duty for europe belgium.

roland.fery on Jan 12,2017

Reply |
upvote (0)

I ordered one that shipped to Holland and it arrived without custom duties.I used the Singapore Post shipping
method, the only available option for me.

eric.koorn on Jan 14,2017 02:46 AM

Reply |
upvote (0)

@eric.koorn Thank you Eric.

roland.fery on Jan 14,2017 20:25 PM

Reply |
upvote (0)

0

How do I post a review of this product?

public on May 13,2017

Reply |
upvote (0)

Hello, you had already post a review. Thanks.

ae on May 14,2017 18:17 PM

Reply |
upvote (0)

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